Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

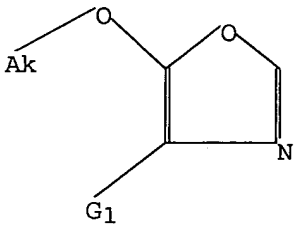
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

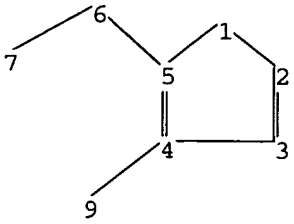
* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	4	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	5	MAR 02	GBFULL: New full-text patent database on STN
NEWS	6	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	9	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	10	MAR 22	PATDPASPC - New patent database available
NEWS	11	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	12	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	13	APR 04	EMBASE - Database reloaded and enhanced
NEWS	14	APR 18	New CAS Information Use Policies available online
NEWS	15	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAplus
NEWS	17	MAY 23	GBFULL enhanced with patent drawing images
NEWS	18	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS	19	JUN 06	STN Patent Forums to be held in June 2005
NEWS	20	JUN 06	The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS	21	JUN 13	RUSSIAPAT: New full-text patent database on STN
NEWS	22	JUN 13	FRFULL enhanced with patent drawing images
NEWS	23	JUN 20	MEDICONF to be removed from STN
NEWS	24	JUN 27	MARPAT displays enhanced with expanded G-group definitions and text labels
NEWS	25	JUL 01	MEDICONF removed from STN
NEWS	26	JUL 07	STN Patent Forums to be held in July 2005

NEWS EXPRESS	JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items

```
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:12:05 ON 07 JUL 2005

=> FIL REGISTRY
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 13:12:25 ON 07 JUL 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:     6 JUL 2005  HIGHEST RN 853990-77-9
DICTIONARY FILE UPDATES:    6 JUL 2005  HIGHEST RN 853990-77-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10726183.str
```





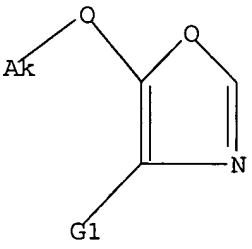
chain nodes :
6 7 9
ring nodes :
1 2 3 4 5
chain bonds :
4-9 5-6 6-7
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
2-3 3-4 4-9 5-6 6-7
exact bonds :
1-2 1-5 4-5
isolated ring systems :
containing 1 :

G1:H,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 9:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 13:12:39 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 169 TO ITERATE

100.0% PROCESSED 169 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2601 TO 4159
PROJECTED ANSWERS: 640 TO 1520

L2 50 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 13:12:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3219 TO ITERATE

100.0% PROCESSED 3219 ITERATIONS 1024 ANSWERS
SEARCH TIME: 00.00.01

L3 1024 SEA SSS FUL L1

=> FIL CAPLUS
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'CAPLUS' ENTERED AT 13:13:00 ON 07 JUL 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 7 Jul 2005 VOL 143 ISS 2
FILE LAST UPDATED: 6 Jul 2005 (20050706/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

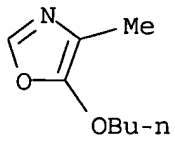
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 426 L3

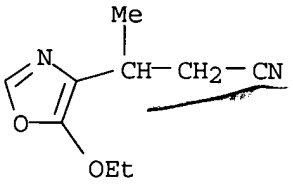
=> s l4 and isocyanoalkanoate
6 ISOCYANOALKANOATE
10 ISOCYANOALKANOATES
13 ISOCYANOALKANOATE (ISOCYANOALKANOATE OR ISOCYANOALKANOATES)
L5 3 L4 AND ISOCYANOALKANOATE

```
=> s l3/p
L6          274 L3/P

=> s l6 and continuously
         137715 CONTINUOUSLY
L7             2 L6 AND CONTINUOUSLY

=> s l6 and isocyano
           1075 ISOCYANO
L8             7 L6 AND ISOCYANO

=> s l6 and isocyanoalkanoate
              6 ISOCYANOALKANOATE
             10 ISOCYANOALKANOATES
             13 ISOCYANOALKANOATE
                (ISOCYANOALKANOATE OR ISOCYANOALKANOATES)
L9             3 L6 AND ISOCYANOALKANOATE

=> s l6 and p/dt
        4742472 P/DT
L10          101 L6 AND P/DT

=> s l10 us/pc
MISSING OPERATOR L10 US/PC
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l10 pc/us
MISSING OPERATOR L10 PC/US
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l10 and pc/us
'US' IS NOT A VALID FIELD CODE
              0 PC/US
L11           0 L10 AND PC/US

=> s l10 and us/pc
        1386329 US/PC
L12          50 L10 AND US/PC

=> s l12 and py<=2000
       20650021 PY<=2000
L13          30 L12 AND PY<=2000

=> d his

     (FILE 'HOME' ENTERED AT 13:12:05 ON 07 JUL 2005)

     FILE 'REGISTRY' ENTERED AT 13:12:25 ON 07 JUL 2005
L1                STRUCTURE UPLOADED
L2             50 S L1
L3           1024 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 13:13:00 ON 07 JUL 2005
L4            426 S L3
L5              3 S L4 AND ISOCYANOALKANOATE
L6            274 S L3/P
```

```
L7            2 S L6 AND CONTINUOUSLY
L8            7 S L6 AND ISOCYANO
L9            3 S L6 AND ISOCYANOALKANOATE
L10         101 S L6 AND P/DT
L11           0 S L10 AND PC/US
L12          50 S L10 AND US/PC
L13          30 S L12 AND PY<=2000

=> d l5 ibib abs hitstr tot

L5   ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2003:512125  CAPLUS
DOCUMENT NUMBER:          139:86982
TITLE:                    Process for the preparation of substituted oxazoles
INVENTOR(S):              Rust, Harald; Burkart, Kirsten; Faust, Tillmann;
                          Henkelmann, Jochem; Kindler, Alois; Knoll, Christian;
                          Becker, Michael
PATENT ASSIGNEE(S):       BASF Aktiengesellschaft, Germany
SOURCE:                   U.S. Pat. Appl. Publ., 11 pp., Cont.-in-part of U.S.
                          Ser. No. 209,529.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   2
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
     ---------------      ----   --------    --------------------     --------
     US 2003125567         A1    20030703    US 2003-348961           20030123
     US 6900332            B2    20050531
     DE 10137480           A1    20030213    DE 2001-10137480         20010803
     DE 10209446           A1    20030918    DE 2002-10209446         20020305
     US 2003050479         A1    20030313    US 2002-209529           20020801
     JP 2003176272         A2    20030624    JP 2002-227292           20020805
     JP 2003267958         A2    20030925    JP 2002-355822           20021206
     CN 1442412            A     20030917    CN 2002-156818           20021213
PRIORITY APPLN. INFO.:                       DE 2001-10137480    A    20010803
                                             DE 2002-10209446    A    20020305
                                             US 2002-209529      A2   20020801
OTHER SOURCE(S):          MARPAT 139:86982
AB   The present invention relates to a process for preparing 5-alkoxy-substituted
     oxazoles, in particular for preparing 4-methyl-5-alkoxy-substituted oxazoles
     and also a process for preparing pyridoxine derivs.  The process is carried
     out in a batchwise or semibatchwise reactor equipped with an emplaced
     reaction column and, simultaneously with the conversion, removing the
     5-alkoxy-substituted oxazoles from the reaction mixture by rectification
     provided that the parameters of the rectification are set in such a way
     that the α- isocyanoalkanoate esters are converted to the
     5-alkoxy-substituted oxazoles in the reactor and/or on the internals of
     the emplaced reaction column and the 5-alkoxy-substituted oxazoles
     resulting from the conversion are removed via the emplaced reaction
     column.
IT   24201-52-3P, 5-Butoxy-4-methyloxazole
     RL: IMF (Industrial manufacture); PREP (Preparation)
        (batchwise or semibatchwise process for preparation of substituted oxazoles)
RN   24201-52-3  CAPLUS
CN   Oxazole, 5-butoxy-4-methyl- (8CI, 9CI)  (CA INDEX NAME)
```



L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:27047 CAPLUS
DOCUMENT NUMBER: 80:27047
TITLE: Synthesis with α-metalated isocyanides. XXV. Ethyl 4-cyano-2-**isocyanoalkanoates**, ethyl 4-cyano-2-(formylamino)alkanoates, and ethyl 4-cyano-5(4)-pyrroline-2-carboxylate from α-metalated ethyl **isocyanoalkanoates** and acrylonitriles
AUTHOR(S): Schoellkopf, Ulrich; Porsch, Paul H.
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Goettingen, Goettingen, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1973), 106(10), 3382-90
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB EtO2CCR(NC)CHR1CHR2CN (R, R2 = H, Me; R1 = H, Me, Ph) and EtO2CC(NC)(CHR1CHR2CN)2 were prepared by reaction of R1CH:CR2CN (I) with EtO2CCHRNC (II) in EtOH at .apprx.30° in the presence of catalytic amts. EtONa. By treating with aqueous HCl, the isocyano group of the compds. obtained was converted into the formylamino group. Reaction of I with II in EtOH at .apprx.65° in the presence of equivalent amts. EtONa yielded in the case of R2 = Me the pyrrolines III and in the case of R2 = H the pyrrolines IV.
IT **51068-91-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 51068-91-8 CAPLUS
CN 4-Oxazolepropanenitrile, 5-ethoxy-β-methyl- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1971:448961 CAPLUS
DOCUMENT NUMBER: 75:48961
TITLE: Synthetic intermediate of pyridoxine. II. Thermal cyclization of ethyl α-isocyanopropionate to 5-ethoxy-4-methyloxazole
AUTHOR(S): Maeda, Itsutoshi; Togo, Kazushi; Yoshida, Ryonosuke
CORPORATE SOURCE: Cent. Res. Lab., Ajinomoto Co., Inc., Kawasaki, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1971), 44(5), 1407-10

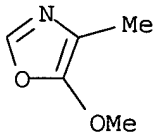
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English

GI For diagram(s), see printed CA Issue.

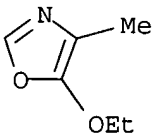
AB The thermal cyclization of ethyl α-isocyanopropionate (I) gave 5-ethoxy-4-methyloxazole (II) as an intermediate for the synthesis of pyridoxine. The similar reaction of several alkyl esters of α-isocyanocarboxylic acid to the corresponding 5-alkoxy-4-substituted oxazole was also carried out. The products of the thermal cyclization of I were investigated. When the cyclization was carried out 5 hr at 180°, the maximum yield of the main product, II, was 20%; unreacted I (30%), Et α-cyanopropionate (20%), and dimer of I (5%) were also obtained. The α-H of Et α-isocyanosuccinate (III) can be more easily removed than that of I, so III may be expected to be more readily converted to 5-ethoxy-4-ethoxycarbonylmethyloxazole (IV), which is also an intermediate of pyridoxine. The yield of IV from III was <30% because of the side reaction.

IT **1622-76-0P 5006-20-2P 5214-69-7P**
15031-12-6P 24201-52-3P 33115-82-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

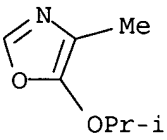
RN 1622-76-0 CAPLUS
CN Oxazole, 5-methoxy-4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



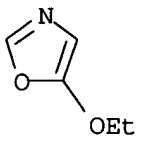
RN 5006-20-2 CAPLUS
CN Oxazole, 5-ethoxy-4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



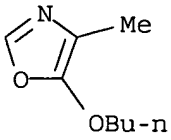
RN 5214-69-7 CAPLUS
CN Oxazole, 4-methyl-5-(1-methylethoxy)- (9CI) (CA INDEX NAME)



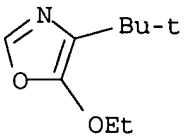
RN 15031-12-6 CAPLUS
CN Oxazole, 5-ethoxy- (8CI, 9CI) (CA INDEX NAME)



RN 24201-52-3 CAPLUS
CN Oxazole, 5-butoxy-4-methyl- (8CI, 9CI) (CA INDEX NAME)



RN 33115-82-1 CAPLUS
CN Oxazole, 5-ethoxy-4-isobutyl- (8CI) (CA INDEX NAME)

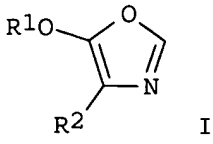


=> d l7 ibib abs hitstr tot

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:649326 CAPLUS
DOCUMENT NUMBER: 141:174164
TITLE: Preparation of 5-alkoxyoxazoles from isocyano esters in the presence of tertiary amines.
INVENTOR(S): Arndt, Jan-dirk; Henkelmann, Jochem; Burkart, Kirsten; Heimann, Frank; Rust, Harald; Becker, Michael
PATENT ASSIGNEE(S): BASF Ag, Germany
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10304343	A1	20040812	DE 2003-10304343	20030203
PRIORITY APPLN. INFO.:			DE 2003-10304343	20030203

OTHER SOURCE(S): CASREACT 141:174164; MARPAT 141:174164
GI



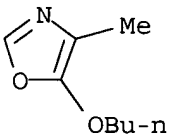
I

AB Title compds. [I; R1 = (substituted) alkyl; R2 = H, (substituted) alkyl], were prepared by heating CNCHR2CO2R1 (variables as above) at >80° with NR5R6R7 [R5-R7 = (substituted) alkyl, cycloalkyl; NR5R6 = atoms to form a 3-7 membered (unsatd.) heterocyclyl; the mol. weight of NR5R6R7 is >185]. Thus, a mixture of CNCHMeCO2Bu, dibutylpentylamine, PhMe, BuOH, and traces of N-formylalanine Bu ester was reacted **continuously** at 170° through a 3-step stirred vessel cascade with a retention time of 25 min. per vessel to give a 41% yield of 4-methyl-5-butoxyoxazole at 50% conversion. A process for prepn of pyridoxine derivs. from I and protected butenediols is claimed.

IT **24201-52-3P**, 5-Butoxy-4-methyloxazole
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of alkoxyoxazoles from isocyano esters in the presence of tertiary amines)

RN 24201-52-3 CAPLUS

CN Oxazole, 5-butoxy-4-methyl- (8CI, 9CI) (CA INDEX NAME)



L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:492747 CAPLUS

DOCUMENT NUMBER: 139:70706

TITLE: Continuous preparation of 5-alkoxy-substituted oxazoles

INVENTOR(S): Rust, Harald; Burkart, Kirsten; Faust, Tillmann; Henkelmann, Jochem; Knoll, Christian; Mohry, Andre; Kindler, Alois

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany

SOURCE: U.S. Pat. Appl. Publ., 11 pp., Cont.-in-part of U.S. Ser. No. 207,894.
CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003120082	A1	20030626	US 2002-300629	20021121
US 6713630	B2	20040330		
DE 10137627	A1	20030220	DE 2001-10137627	20010803
DE 10209447	A1	20030918	DE 2002-10209447	20020305

US 2003050478	A1	20030313	US 2002-207894		20020731
JP 2003201283	A2	20030718	JP 2002-227742		20020805
JP 2003261546	A2	20030919	JP 2002-355604		20021206
CN 1442411	A	20030917	CN 2002-156817		20021213
US 2004110961	A1	20040610	US 2003-726183		20031203
PRIORITY APPLN. INFO.:			DE 2001-10137627	A	20010803
			DE 2002-10209447	A	20020305
			US 2002-207894	A2	20020731
			US 2002-300629	A3	20021121

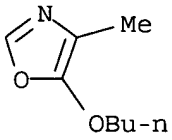
OTHER SOURCE(S): CASREACT 139:70706; MARPAT 139:70706

AB The present invention relates to a process for **continuously** preparing 5-alkoxy-substituted oxazoles, in particular for **continuously** preparing 4-methyl-5-alkoxy-substituted oxazoles and also a process for preparing pyridoxine derivs. Thus, 4-methyl-5-n-butoxyoxazole was synthesized from n-Bu α-isocyanopropionate in the presence of tri-n-butylamine.

IT **24201-52-3P**, 4-Methyl-5-n-butoxyoxazole
RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(continuous preparation of 5-alkoxy-substituted oxazoles)

RN 24201-52-3 CAPLUS

CN Oxazole, 5-butoxy-4-methyl- (8CI, 9CI) (CA INDEX NAME)



=> d l8 ibib abs hitstr tot

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:649326 CAPLUS

DOCUMENT NUMBER: 141:174164

TITLE: Preparation of 5-alkoxyoxazoles from **isocyano** esters in the presence of tertiary amines.

INVENTOR(S): Arndt, Jan-dirk; Henkelmann, Jochem; Burkart, Kirsten; Heimann, Frank; Rust, Harald; Becker, Michael

PATENT ASSIGNEE(S): BASF Ag, Germany

SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

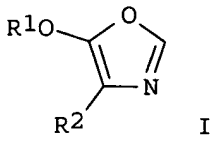
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10304343	A1	20040812	DE 2003-10304343	20030203
PRIORITY APPLN. INFO.:			DE 2003-10304343	20030203

OTHER SOURCE(S): CASREACT 141:174164; MARPAT 141:174164

GI



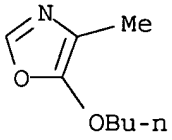
I

AB Title compds. [I; R1 = (substituted) alkyl; R2 = H, (substituted) alkyl], were prepared by heating CNCHR2CO2R1 (variables as above) at >80° with NR5R6R7 [R5-R7 = (substituted) alkyl, cycloalkyl; NR5R6 = atoms to form a 3-7 membered (unsatd.) heterocyclyl; the mol. weight of NR5R6R7 is >185]. Thus, a mixture of CNCHMeCO2Bu, dibutylpentylamine, PhMe, BuOH, and traces of N-formylalanine Bu ester was reacted continuously at 170° through a 3-step stirred vessel cascade with a retention time of 25 min. per vessel to give a 41% yield of 4-methyl-5-butoxyoxazole at 50% conversion. A process for prepn of pyridoxine derivs. from I and protected butenediols is claimed.

IT **24201-52-3P**, 5-Butoxy-4-methyloxazole
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of alkoxyoxazoles from **isocyano** esters in the presence of tertiary amines)

RN 24201-52-3 CAPLUS

CN Oxazole, 5-butoxy-4-methyl- (8CI, 9CI) (CA INDEX NAME)



L8 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:515403 CAPLUS

DOCUMENT NUMBER: 113:115403

TITLE: Synthesis and aldol-type reaction of 5-methoxy-2-(trialkylsilyl)oxazoles

AUTHOR(S): Murakami, Masahiro; Higuchi, Noriko; Ito, Yoshihiko

CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Yoshida, 606, Japan

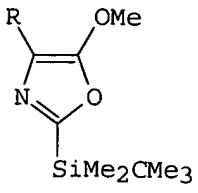
SOURCE: Chemistry Express (1990), 5(6), 411-14
CODEN: CHEXEU; ISSN: 0911-9566

DOCUMENT TYPE: Journal

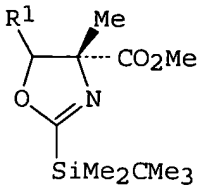
LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:115403

GI



I

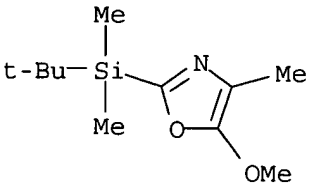


II

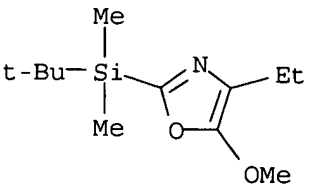
AB Lithiation of α- **isocyano** carboxylic esters MeO2CCH(NC)R followed by silylation with trialkylchlorosilane afforded methoxy(trialkylsilyl)oxazoles (I; R = Me, Et, CMe2). I (R = Me) underwent ZnCl2-catalyzed aldol-type condensation with R1CHO (R1 = alkyl, Ph) to produce cis and trans isomers of (methoxycarbonyl)(trialkylsilyl)oxazolines (II; R1 = alkyl, Ph).

IT **129206-70-8P 129206-71-9P 129206-72-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and aldol condensation of, oxazoline derivs. by)

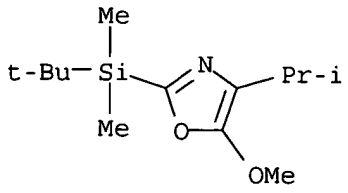
RN 129206-70-8 CAPLUS
CN Oxazole, 2-[(1,1-dimethylethyl)dimethylsilyl]-5-methoxy-4-methyl- (9CI) (CA INDEX NAME)



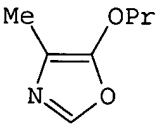
RN 129206-71-9 CAPLUS
CN Oxazole, 2-[(1,1-dimethylethyl)dimethylsilyl]-4-ethyl-5-methoxy- (9CI) (CA INDEX NAME)



RN 129206-72-0 CAPLUS
CN Oxazole, 2-[(1,1-dimethylethyl)dimethylsilyl]-5-methoxy-4-(1-methylethyl)- (9CI) (CA INDEX NAME)



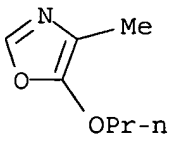
L8 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:114729 CAPLUS
DOCUMENT NUMBER: 110:114729
TITLE: Synthesis of 4-methyl-5-propoxyoxazole from the propyl ester of α-isocyanopropionic acid
AUTHOR(S): Mishchenko, V. V.; Itov, Z. I.; L'vova, S. D.; Shostakovskaya, G. K.; Gunar, V. I.
CORPORATE SOURCE: NPO "Vitaminy", Moscow, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1988), 22(7), 856-60
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 110:114729
GI



I

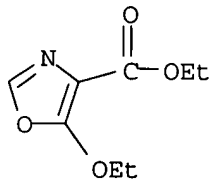
AB Thermal cyclization of Pr 2-isocyanopropionate 20 h at 135° gave 4-39% oxazole I depending on the solvent; higher yields were obtained with more polar solvents.

IT **19104-68-8P**
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in thermal cyclization of Pr isocyanopropionate)
RN 19104-68-8 CAPLUS
CN Oxazole, 4-methyl-5-propoxy- (8CI, 9CI) (CA INDEX NAME)

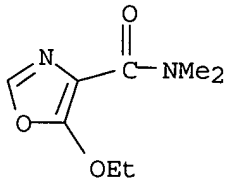


L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:458699 CAPLUS
DOCUMENT NUMBER: 83:58699

TITLE: Syntheses with α-metalated isocyanides. XXVIII. Oxazoles unsubstituted in position 2 from α-metalated isocyanides and acylating reagents
AUTHOR(S): Schroeder, Rolf; Schoellkopf, Ulrich; Blume, Ernst; Hoppe, Inga
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Goettingen, Goettingen, Fed. Rep. Ger.
SOURCE: Justus Liebigs Annalen der Chemie (1975), (3), 533-46
CODEN: JLACBF; ISSN: 0075-4617
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 83:58699
GI For diagram(s), see printed CA Issue.
AB Oxazoles I [R1 = Ph, CH2Ph, Me, Et, iso-Pr, OEt, tert-Bu, H, 1,2-epoxy-2-methylpropyl, p-tolyl; R = CO2Et, CONMe2, H, P(O)(OEt)2, Ph, p-tolylthio, CH:CMe2] were prepared from α-metalated isocyanides RC-HNC M+ (M = K, Li) and acylating agents R1COX (X = Cl, OEt, NMe2). β-Oxo isocyanides RCH(NC)COR1 are intermediates which cyclize either in situ or during work-up. EtO2CC-MeNC K+ and enolizable acyl chlorides gave oxazolines II (R = H, Me). EtO2CC-HNC K+ and 0.5 equivalent EtO2CCl gave EtO2CCK(NC)CO2Et which can be alkylated in situ by alkyl halides to give RC(NC)(CO2Et)2 (R = Me, iso-Pr, CH2CH:CH2), precursors of higher amino acids.
IT **14423-15-5P 56157-42-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 14423-15-5 CAPLUS
CN 4-Oxazolecarboxylic acid, 5-ethoxy-, ethyl ester (8CI, 9CI) (CA INDEX NAME)

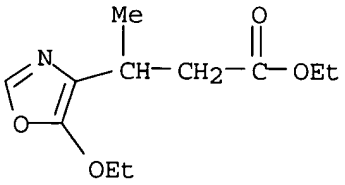


RN 56157-42-7 CAPLUS
CN 4-Oxazolecarboxamide, 5-ethoxy-N,N-dimethyl- (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:27048 CAPLUS
DOCUMENT NUMBER: 80:27048
TITLE: Syntheses with α-metalated isocyanides. XXIV. Syntheses of diethyl α-isocyanoglutarates, glutamic acid derivatives, and pyrrolinecarboxylates from α-isocyanoacetates or α-

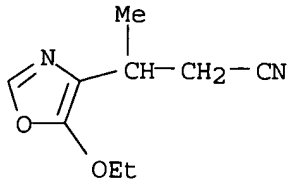
isocyanopropionates and acrylates
AUTHOR(S): Schoellkopf, Ulrich; Hantke, Kurt
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Goettingen, Goettingen, Fed. Rep. Ger.
SOURCE: Justus Liebigs Annalen der Chemie (1973), 9, 1571-82
CODEN: JLACBF; ISSN: 0075-4617
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 80:27048
GI For diagram(s), see printed CA Issue.
AB Michael addition of CNCHRCO2Et [R = H (I) or Me (II)] to R1CH:CR2CO2Et (R1 = H, Me, Ph, CO2Et, or CH:CHMe; R2 = H or Me) in EtOH at .apprx.50° in the presence of EtONa yielded 18-75% EtO2CCR(NC)CHR1CHR2CO2Et (III) and EtO2CC(NC)(CHR1CHR2CO2Et)2, resp. In dilute HCl, the NC group was converted into the NHCHO group. III (R = Me) were cyclized at .apprx.80° in the presence of equivalent amts. EtONa to give the pyrrolinecarboxylates IV and V, resp., which on hydrogenation gave the proline derivs. VI. Michael addition of I to PhCH:CHCOPh and of II to CH2:CHCOMe gave the pyrrolinecarboxylate VII and EtO2CCMe(NC)CH2CH2COMe, resp.
IT **50900-01-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 50900-01-1 CAPLUS
CN 4-Oxazolepropanoic acid, 5-ethoxy-β-methyl-, ethyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:27047 CAPLUS
DOCUMENT NUMBER: 80:27047
TITLE: Synthesis with α-metalated isocyanides. XXV. Ethyl 4-cyano-2-isocyanoalkanoates, ethyl 4-cyano-2-(formylamino)alkanoates, and ethyl 4-cyano-5(4)-pyrroline-2-carboxylate from α-metalated ethyl isocyanoalkanoates and acrylonitriles
AUTHOR(S): Schoellkopf, Ulrich; Porsch, Paul H.
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Goettingen, Goettingen, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1973), 106(10), 3382-90
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB EtO2CCR(NC)CHR1CHR2CN (R, R2 = H, Me; R1 = H, Me, Ph) and EtO2CC(NC)(CHR1CHR2CN)2 were prepared by reaction of R1CH:CR2CN (I) with EtO2CCHRNC (II) in EtOH at .apprx.30° in the presence of catalytic amts. EtONa. By treating with aqueous HCl, the **isocyano** group of the compds. obtained was converted into the formylamino group. Reaction of I with II in EtOH at .apprx.65° in the presence of equivalent amts.

EtONa yielded in the case of R2 = Me the pyrrolines III and in the case of R2 = H the pyrrolines IV.

IT **51068-91-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 51068-91-8 CAPLUS
CN 4-Oxazolepropanenitrile, 5-ethoxy-β-methyl- (9CI) (CA INDEX NAME)

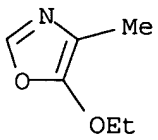


L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1969:68347 CAPLUS
DOCUMENT NUMBER: 70:68347
TITLE: 5-Alkoxy oxazole
INVENTOR(S): Maeda, Itsuki; Asai, Soichiro; Yoshida, Ryonosuke
PATENT ASSIGNEE(S): Ajinomoto Co., Inc.
SOURCE: Jpn. Tokkyo Koho, 4 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 43019953	B4	19680828	JP	19651104

AB The title compds. are prepared by thermal cyclization of lower alkyl ester of α-(**isocyano**)alkylcarboxylic acid. Thus, 50 g. Et α-**isocyano**-propionate was kept at 180° for 3 hrs. in an autoclave. Fractional distillation of the reaction mixture gave 21.6 g. 5-ethoxy-4-methyloxazole b25 64-73°, (fraction A) and 19.3 g. unreacted fraction, b25 80-5°. Each fraction was subjected to gas chromatog. using a column of dinonyl phthalate on Teflon particles. Fraction A contained 95% product for a total yield of 78%.

IT **5006-20-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 5006-20-2 CAPLUS
CN Oxazole, 5-ethoxy-4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



=> d 19 ibib abs hitstr tot

L9 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:512125 CAPLUS
DOCUMENT NUMBER: 139:86982
TITLE: Process for the preparation of substituted oxazoles
INVENTOR(S): Rust, Harald; Burkart, Kirsten; Faust, Tillmann; Henkelmann, Jochem; Kindler, Alois; Knoll, Christian; Boeker, Michael
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: U.S. Pat. Appl. Publ., 11 pp., Cont.-in-part of U.S. Ser. No. 209,529.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

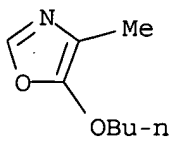
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003125567	A1	20030703	US 2003-348961	20030123
US 6900332	B2	20050531		
DE 10137480	A1	20030213	DE 2001-10137480	20010803
DE 10209446	A1	20030918	DE 2002-10209446	20020305
US 2003050479	A1	20030313	US 2002-209529	20020801
JP 2003176272	A2	20030624	JP 2002-227292	20020805
JP 2003267958	A2	20030925	JP 2002-355822	20021206
CN 1442412	A	20030917	CN 2002-156818	20021213

PRIORITY APPLN. INFO.: DE 2001-10137480 A 20010803
DE 2002-10209446 A 20020305
US 2002-209529 A2 20020801

OTHER SOURCE(S): MARPAT 139:86982

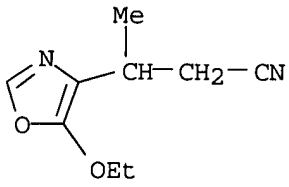
AB The present invention relates to a process for preparing 5-alkoxy-substituted oxazoles, in particular for preparing 4-methyl-5-alkoxy-substituted oxazoles and also a process for preparing pyridoxine derivs. The process is carried out in a batchwise or semibatchwise reactor equipped with an emplaced reaction column and, simultaneously with the conversion, removing the 5-alkoxy-substituted oxazoles from the reaction mixture by rectification provided that the parameters of the rectification are set in such a way that the α- **isocyanoalkanoate** esters are converted to the 5-alkoxy-substituted oxazoles in the reactor and/or on the internals of the emplaced reaction column and the 5-alkoxy-substituted oxazoles resulting from the conversion are removed via the emplaced reaction column.

IT **24201-52-3P**, 5-Butoxy-4-methyloxazole
RL: IMF (Industrial manufacture); PREP (Preparation)
(batchwise or semibatchwise process for preparation of substituted oxazoles)
RN 24201-52-3 CAPLUS
CN Oxazole, 5-butoxy-4-methyl- (8CI, 9CI) (CA INDEX NAME)



L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1974:27047 CAPLUS
DOCUMENT NUMBER: 80:27047
TITLE: Synthesis with α-metalated isocyanides. XXV. Ethyl 4-cyano-2-**isocyanoalkanoates**, ethyl 4-cyano-2-(formylamino)alkanoates, and ethyl 4-cyano-5(4)-pyrroline-2-carboxylate from α-metalated ethyl **isocyanoalkanoates** and acrylonitriles
AUTHOR(S): Schoellkopf, Ulrich; Porsch, Paul H.
CORPORATE SOURCE: Org.-Chem. Inst., Univ. Goettingen, Goettingen, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1973), 106(10), 3382-90
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB EtO2CCR(NC)CHR1CHR2CN (R, R2 = H, Me; R1 = H, Me, Ph) and EtO2CC(NC)(CHR1CHR2CN)2 were prepared by reaction of R1CH:CR2CN (I) with EtO2CCHRNC (II) in EtOH at .apprx.30° in the presence of catalytic amts. EtONa. By treating with aqueous HCl, the isocyano group of the compds. obtained was converted into the formylamino group. Reaction of I with II in EtOH at .apprx.65° in the presence of equivalent amts. EtONa yielded in the case of R2 = Me the pyrrolines III and in the case of R2 = H the pyrrolines IV.
IT **51068-91-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 51068-91-8 CAPLUS
CN 4-Oxazolepropanenitrile, 5-ethoxy-β-methyl- (9CI) (CA INDEX NAME)

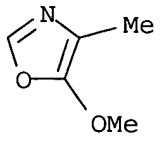


L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1971:448961 CAPLUS
DOCUMENT NUMBER: 75:48961
TITLE: Synthetic intermediate of pyridoxine. II. Thermal cyclization of ethyl α-isocyanopropionate to 5-ethoxy-4-methyloxazole
AUTHOR(S): Maeda, Itsutoshi; Togo, Kazushi; Yoshida, Ryonosuke
CORPORATE SOURCE: Cent. Res. Lab., Ajinomoto Co., Inc., Kawasaki, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1971), 44(5), 1407-10
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The thermal cyclization of ethyl α-isocyanopropionate (I) gave 5-ethoxy-4-methyloxazole (II) as an intermediate for the synthesis of pyridoxine. The similar reaction of several alkyl esters of α-isocyanocarboxylic acid to the corresponding 5-alkoxy-4-substituted oxazole was also carried out. The products of the thermal

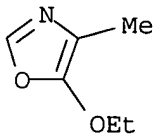
cyclization of I were investigated. When the cyclization was carried out 5 hr at 180°, the maximum yield of the main product, II, was 20%; unreacted I (30%), Et α-cyanopropionate (20%), and dimer of I (5%) were also obtained. The α-H of Et α-isocyanosuccinate (III) can be more easily removed than that of I, so III may be expected to be more readily converted to 5-ethoxy-4-ethoxycarbonylmethyloxazole (IV), which is also an intermediate of pyridoxine. The yield of IV from III was <30% because of the side reaction.

IT **1622-76-0P 5006-20-2P 5214-69-7P**
15031-12-6P 24201-52-3P 33115-82-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

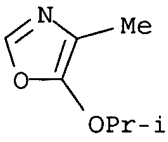
RN 1622-76-0 CAPLUS
CN Oxazole, 5-methoxy-4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



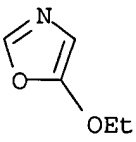
RN 5006-20-2 CAPLUS
CN Oxazole, 5-ethoxy-4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



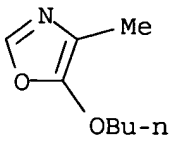
RN 5214-69-7 CAPLUS
CN Oxazole, 4-methyl-5-(1-methylethoxy)- (9CI) (CA INDEX NAME)



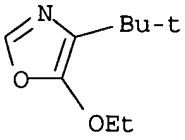
RN 15031-12-6 CAPLUS
CN Oxazole, 5-ethoxy- (8CI, 9CI) (CA INDEX NAME)



RN 24201-52-3 CAPLUS
CN Oxazole, 5-butoxy-4-methyl- (8CI, 9CI) (CA INDEX NAME)



RN 33115-82-1 CAPLUS
CN Oxazole, 5-ethoxy-4-isobutyl- (8CI) (CA INDEX NAME)

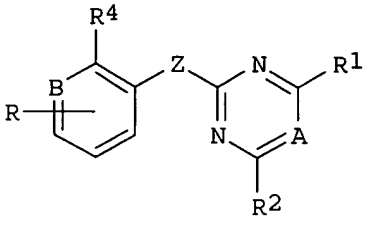


=> d l13 ibib abs hitstr 1-10

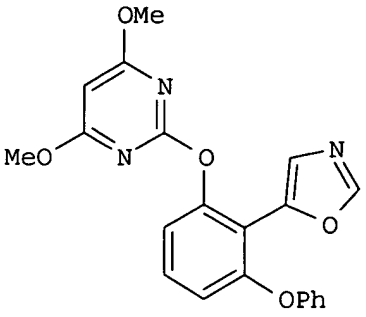
L13 ANSWER 1 OF 30 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:560055 CAPLUS
DOCUMENT NUMBER: 135:137518
TITLE: Preparation of pyrimidinylphenyloxazole derivatives as herbicides
INVENTOR(S): Ueda, Akiyoshi; Miyazawa, Yasuyuki; Hara, Yoshihiko; Koguchi, Masami; Takahashi, Akihiro; Kawana, Takashi
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: U.S., 41 pp., Cont.-in-part of U.S. 5,962,685.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
US 6268310	B1	20010731	US 1999-248372		19990210	<--
US 5962685	A	19991005	US 1997-750932		19970128	<--
PRIORITY APPLN. INFO.:			US 1997-750932	A2	19970128	
			JP 1994-200196	A	19940802	
			JP 1994-200197	A	19940802	
			WO 1995-JP1523	W	19950801	

OTHER SOURCE(S): MARPAT 135:137518
GI



I



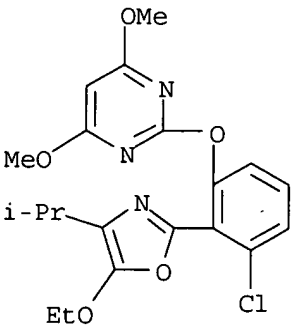
II

AB Title compds. [I; A = N or CR3; B = N or an (un)substituted C (sic); R = H or 1-4 of (halo)alkyl, alkenyl, alkynyl, etc.; ; R1,R2 = H, C1-6 (halo)alkyl, C1-6 (halo)alkoxy, etc.; R3 = H, C1-6 alkyl, halo, NO2, CHO, acyl; R4 = (un)substituted oxazolyl; Z = O or SO0-2] were prepared Thus, title compound II (preparation given) at 2.5 g/are gave 100% control of barnyard grass, Cyperus difformis, and Scirpus juncoides.

IT **177708-92-8P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrimidinylphenyloxazole derivs. as herbicides)

RN 177708-92-8 CAPLUS

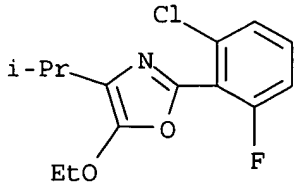
CN Pyrimidine, 2-[3-chloro-2-[5-ethoxy-4-(1-methylethyl)-2-oxazolyl]phenoxy]-4,6-dimethoxy- (9CI) (CA INDEX NAME)



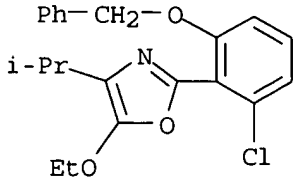
IT **177710-95-1P 177710-96-2P 177710-97-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrimidinylphenyloxazole derivs. as herbicides)

RN 177710-95-1 CAPLUS

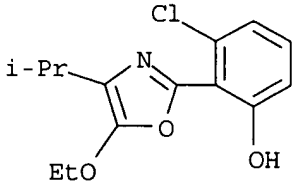
CN Oxazole, 2-(2-chloro-6-fluorophenyl)-5-ethoxy-4-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 177710-96-2 CAPLUS
CN Oxazole, 2-[2-chloro-6-(phenylmethoxy)phenyl]-5-ethoxy-4-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 177710-97-3 CAPLUS
CN Phenol, 3-chloro-2-[5-ethoxy-4-(1-methylethyl)-2-oxazolyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

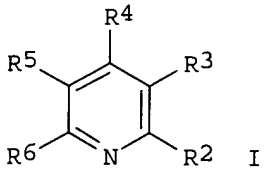
L13 ANSWER 2 OF 30 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:529133 CAPLUS
DOCUMENT NUMBER: 131:157711
TITLE: Preparation of pyridinecarboxylates and analogs as cholesteryl ester transfer protein inhibitors
INVENTOR(S): Lee, Len F.; Glenn, Kevin C.; Connolly, Daniel T.; Corley, David G.; Flynn, Daniel L.; Hamme, Ashton; Hegde, Shridhar G.; Melton, Michele A.; Schilling, Roger J.; Sikorski, James A.; Wall, Nancy N.; Zablocki, Jeffrey A.
PATENT ASSIGNEE(S): G.D. Searle and Co., USA
SOURCE: PCT Int. Appl., 327 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 9941237	A1	19990819	WO 1999-US1871	19990211 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9932854	A1	19990830	AU 1999-32854	19990211 <--
US 6605624	B1	20030812	US 2000-600870	20001211 <--
US 2004038939	A1	20040226	US 2003-403903	20030331 <--
US 6794396	B2	20040921		
US 2004220231	A1	20041104	US 2004-852975	20040525 <--
PRIORITY APPLN. INFO.:			US 1998-74586P	P 19980213
			WO 1999-US1871	W 19990211
			US 2000-600870	A3 20001211
			US 2003-403903	A3 20030331

OTHER SOURCE(S): MARPAT 131:157711

GI



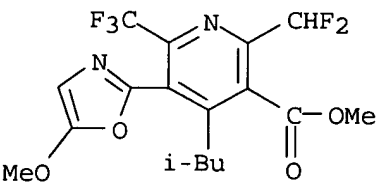
I

AB Title compds. [I; R2,R6 = H, OH, (fluoro)alkyl, alkoxy, etc.; R3 = OH, CHO, alkoxycarbonyl, (hetero)arylcarbonyl, etc.; R5 = H, halo, alkyl, alkoxy, etc.; R5 = H, halo, alkyl, alkoxy(carbonyl), etc.] were prepared Thus, CF3C(NH2):C(CO2Me)COMe was refluxed with Ac2O/HC(OMe)3 and the product converted in 2 steps to I (R2 = CF3, R3 = CO2Me, R4 = OCHMe2, R5 = R6 = H). Data for biol. activity of I were given.

IT **117718-35-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyridinecarboxylates and analogs as cholesteryl ester transfer protein inhibitors)

RN 117718-35-1 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-(difluoromethyl)-5-(5-methoxy-2-oxazolyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-, methyl ester (9CI) (CA INDEX NAME)

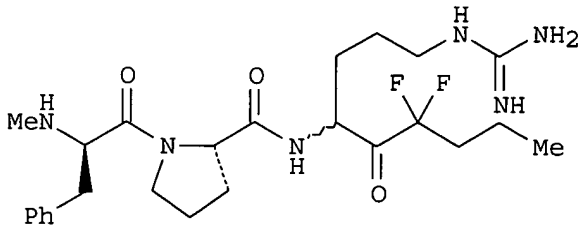


REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

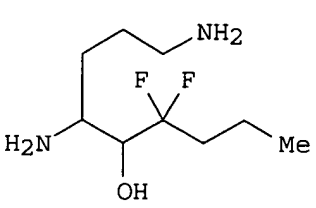
L13 ANSWER 3 OF 30 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:226851 CAPLUS
DOCUMENT NUMBER: 128:283091
TITLE: Process for the preparation of N-methyl-D-phenylalanyl-N-[1-[3-[(aminoiminomethyl)amino]propyl]-3,3-difluoro-2-oxohexyl]-L-prolinamide by direct guanylation of Dakin-West intermediates
INVENTOR(S): Rudisill, Duane E.
PATENT ASSIGNEE(S): Hoechst Marion Roussel, Inc., USA
SOURCE: U.S., 12 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5739354	A	19980414	US 1997-786997	19970123 <--
PRIORITY APPLN. INFO.:			US 1997-786997	19970123

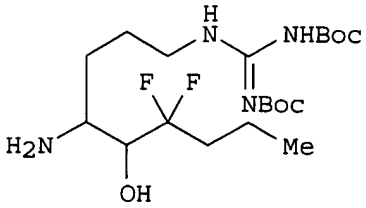
OTHER SOURCE(S): CASREACT 128:283091
GI



I



II



III

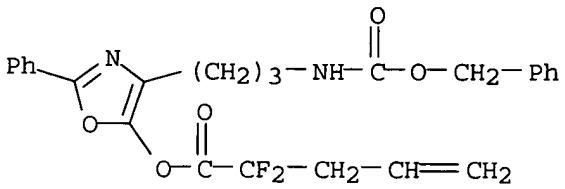
AB The present invention relates to a novel process for preparing the title compound (MDL 75,579DA) (I) or a pharmaceutically acceptable salt thereof and to a key intermediate by directly guanylating Dakin-West intermediates. Thus, direct guanylation of 9,6-diamino-5-hydroxy-4,4-difluorononane (II; prepared in 6 steps from Et 2,2-difluoro-4-pentenoate and Nδ-benzyloxycarbonyl-L-ornithine) with (bis-Boc-amidino)pyrazole (Boc = Me3CO2C) gave protected guanidine derivative III in 83% yield. III was converted into I via peptide coupling with N-Boc-N-methyl-D-phenylalanyl-L-proline, Swern oxidation, and deprotection.

IT **170887-02-2P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic

preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for preparation of thrombin inhibitor MDL 75,579DA via direct guanylation of Dakin-West intermediates)

RN 170887-02-2 CAPLUS

CN 4-Pentenoic acid, 2,2-difluoro-, 2-phenyl-4-[3-[[(phenylmethoxy)carbonyl]amino]propyl]-5-oxazolyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

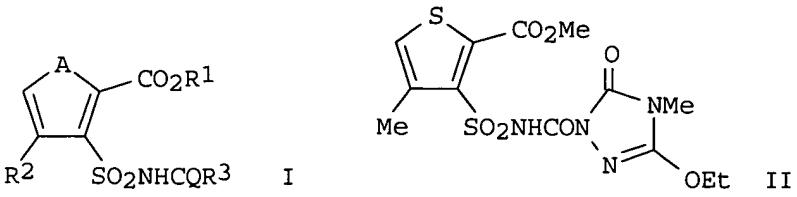
L13 ANSWER 4 OF 30 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:394187 CAPLUS
DOCUMENT NUMBER: 127:5094
TITLE: N-Heterocyclylcarbonylbenzene- and -thiophenesulfonamides as herbicides
INVENTOR(S): Mueller, Klaus-Helmut; Drewes, Mark Wilhelm; Findeisen, Kurt; Gesing, Ernst R. F.; Jansen, Johannes R.; Kirsten, Rolf; Kluth, Joachim; Philipp, Ulrich; Riebel, Hans-Jochem; Dollinger, Markus; Santel, Hans-Joachim
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 51 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19540737	A1	19970507	DE 1995-19540737	19951102 <--
CA 2236208	AA	19970509	CA 1996-2236208	19961021 <--
CA 2236208	C	20050503		
WO 9716449	A1	19970509	WO 1996-EP4559	19961021 <--
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9674909	A1	19970522	AU 1996-74909	19961021 <--
EP 859774	A1	19980826	EP 1996-937202	19961021 <--
EP 859774	B1	20020403		
R: DE, FR, GB, IT				
CN 1207099	A	19990203	CN 1996-199468	19961021 <--
CN 1105717	B	20030416		
BR 9611129	A	19990330	BR 1996-11129	19961021 <--
JP 11515018	T2	19991221	JP 1996-517028	19961021 <--
PL 186726	B1	20040227	PL 1996-327978	19961021
US 6180567	B1	20010130	US 1998-66385	19980807 <--

US 6441195	B1	20020827	US 2000-710079		20001109 <--
CN 1439631	A	20030903	CN 2002-104506		20020207
US 2003162979	A1	20030828	US 2002-137088		20020501 <--
PRIORITY APPLN. INFO.:			DE 1995-19540737	A	19951102
			WO 1996-EP4559	W	19961021
			US 1998-66385	A3	19980807
			US 2000-710079	A3	20001109

OTHER SOURCE(S): MARPAT 127:5094

GI



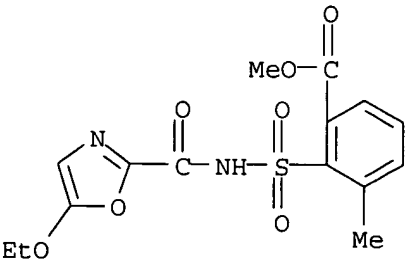
I II

AB Title compds. I [A = O, S, (un)substituted NH, CH:N, N:CH, CH:CH; Q = O, S; R1 = alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, aryl, aralkyl, heterocyclyl, heterocyclylalkyl; R2 = CN, NO2, halogen, (un)substituted alkyl, alkoxy,alkoxycarbonyl, alkylthio, alkylsulfinyl, alkylsulfonyl, alkenyl, alkynyl, alkenyloxy, alkynyloxy; R3 = (un)substituted 5-membered heterocycle] and their salts were prepared Thus, the triazole derivative II was obtained from the thiophenesulfonamide and the triazolecarboxylate. II has herbicidal activity while being well tolerated by maize and soybeans.

IT **190374-20-0P 190374-21-1P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-heterocyclylcarbonylbenzene- and -thiophenesulfonamides as herbicides)

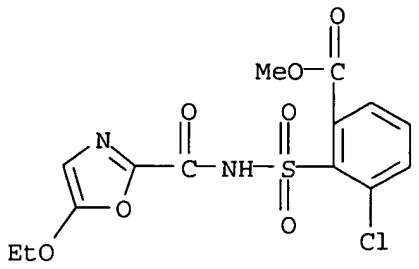
RN 190374-20-0 CAPLUS

CN Benzoic acid, 2-[[[(5-ethoxy-2-oxazolyl)carbonyl]amino]sulfonyl]-3-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 190374-21-1 CAPLUS

CN Benzoic acid, 3-chloro-2-[[[(5-ethoxy-2-oxazolyl)carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 5 OF 30 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:369768 CAPLUS
DOCUMENT NUMBER: 126:343564
TITLE: Process for the preparation of nitriles by the dehydration of amides in the presence of sulfur trioxide-amine dehydration agents
INVENTOR(S): Bonrath, Werner; Pauling, Horst
PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.
SOURCE: Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

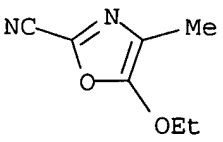
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 775691	A1	19970528	EP 1996-118232	19961114 <--
EP 775691	B1	20000126		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
US 5817827	A	19981006	US 1996-734987	19961022 <--
JP 09169714	A2	19970630	JP 1996-283700	19961025 <--
CN 1156721	A	19970813	CN 1996-114461	19961113 <--
CN 1071311	B	20010919		
AT 189209	E	20000215	AT 1996-118232	19961114 <--
ES 2143126	T3	20000501	ES 1996-118232	19961114 <--
PRIORITY APPLN. INFO.:			CH 1995-3290 A	19951121

OTHER SOURCE(S): CASREACT 126:343564

AB Nitriles (e.g., 5-cyano-4-methyloxazole) are prepared in high yield and selectivity by the dehydration of amides (e.g., 5-carbamoyl-4-methyloxazole) in the presence of SO3 and a tertiary amine (e.g., Et3N).

IT **189807-90-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(process for the preparation of nitriles by the dehydration of amides in the presence of sulfur trioxide-amine dehydration agents)

RN 189807-90-7 CAPLUS
CN 2-Oxazolecarbonitrile, 5-ethoxy-4-methyl- (9CI) (CA INDEX NAME)

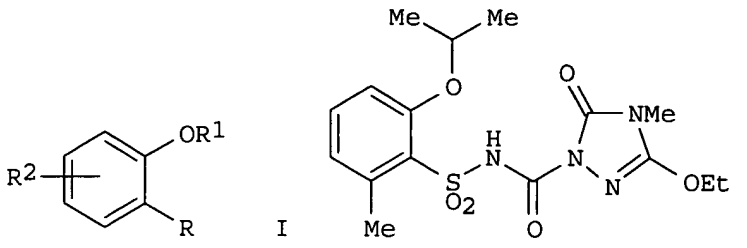


L13 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:191906 CAPLUS
DOCUMENT NUMBER: 126:186088
TITLE: Preparation of 2-[(phenylsulfonyl)aminocarbonyl]-1,2,4-triazol-3-ones and analogs as herbicides
INVENTOR(S): Mueller, Klaus-Helmut; Kirsten, Rolf; Gesing, Ernst R. F.; Kluth, Joachim; Drewes, Mark Wilhelm; Findeisen, Kurt; Jansen, Johannes R.; Koenig, Klaus; Riebel, Hans-Jochem; Schallner, Otto; Dollinger, Markus; Santel, Hans-Joachim
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 115 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19525162	A1	19970116	DE 1995-19525162	19950711 <--
CA 2226669	AA	19970130	CA 1996-2226669	19960628 <--
WO 9703056	A1	19970130	WO 1996-EP2826	19960628 <--
W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9665146	A1	19970210	AU 1996-65146	19960628 <--
AU 703153	B2	19990318		
EP 842157	A1	19980520	EP 1996-924805	19960628 <--
EP 842157	B1	20030827		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CN 1198159	A	19981104	CN 1996-196753	19960628 <--
CN 1086696	B	20020626		
BR 9609902	A	19990629	BR 1996-9902	19960628 <--
JP 11508595	T2	19990727	JP 1996-505456	19960628 <--
EP 1344771	A1	20030917	EP 2003-11479	19960628
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
ES 2202457	T3	20040401	ES 1996-924805	19960628
ZA 9605841	A	19970131	ZA 1996-5841	19960710 <--
US 6251831	B1	20010626	US 1998-223246	19981230 <--
HK 1016167	A1	20030228	HK 1999-101110	19990317
CN 1316418	A	20011010	CN 2001-101527	20010117
US 6525211	B1	20030225	US 2001-838812	20010420 <--

PRIORITY APPLN. INFO.:		
DE 1995-19525162	A	19950711
EP 1996-924805	A3	19960628
WO 1996-EP2826	W	19960628
US 1998-6686	B1	19980108
US 1998-223246	A3	19981230

OTHER SOURCE(S): MARPAT 126:186088
GI

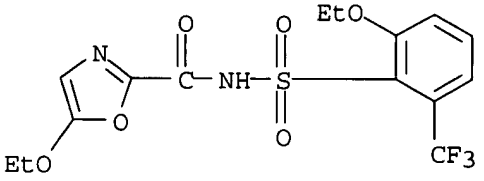


AB Title compds. [I; R = ZSO2NHC(:X)R3; R1 = H, CHO, (un)substituted alk(en)yl, acyl, etc.; R2 = halo, cyano, alkyl, alkoxy, etc.; R3 = heterocyclyl; X = O or S; Z = bond, O, S, (alkyl)imino, etc.] were prepared as herbicides (no data). Thus, Ph 5-ethoxy-4-methyl-2,4-dihydro-3H-1,2,4-triazol-3-one-2-carboxylate was amidated by 2,6-Me(Me2HCO)C6H3SO2NH2 to give title compound II.

IT **187469-45-0P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2-[(phenylsulfonyl)aminocarbonyl]-1,2,4-triazol-3-ones and analogs as herbicides)

RN 187469-45-0 CAPLUS

CN 2-Oxazolecarboxamide, 5-ethoxy-N-[[2-ethoxy-6-(trifluoromethyl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 7 OF 30 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:363369 CAPLUS

DOCUMENT NUMBER: 125:33668

TITLE: Preparation of pyrimidinylphenyloxazole derivatives as herbicides

INVENTOR(S): Ueda, Akiyoshi; Miyazawa, Yasuyuki; Hara, Yoshihiko; Koguchi, Masami; Takahashi, Akihiro; Kawana, Takashi

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: PCT Int. Appl., 111 pp.
CODEN: PIXXD2

DOCUMENT TYPE: **Patent**

LANGUAGE: Japanese

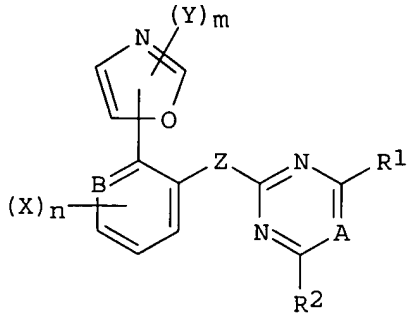
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

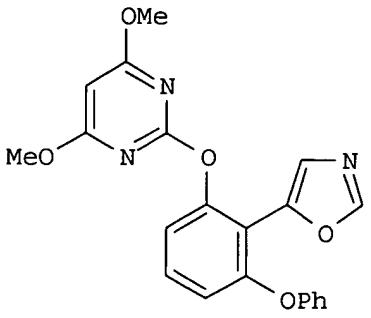
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9604278	A1	19960215	WO 1995-JP1523	19950801 <--
W: AU, BR, CA, CN, HU, JP, KR, RU, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9530871	A1	19960304	AU 1995-30871	19950801 <--

EP 776894	A1	19970604	EP 1995-926531		19950801 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
US 5962685	A	19991005	US 1997-750932		19970128 <--
US 6107251	A	20000822	US 1999-249650		19990212 <--
PRIORITY APPLN. INFO.:			JP 1994-200196	A	19940802
			JP 1994-200197	A	19940802
			WO 1995-JP1523	W	19950801

OTHER SOURCE(S): MARPAT 125:33668
GI



I



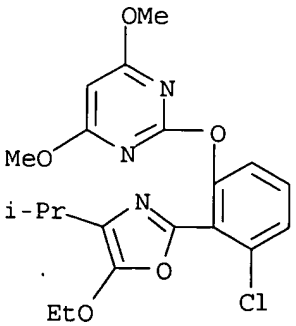
II

AB The title compds. I [A represents a nitrogen atom or an R3-substituted carbon atom; B represents a nitrogen atom, or an unsubstituted or X-substituted carbon atom; Z represents oxygen, S, sulfinyl or sulfonyl; R1 and R2 represent each independently hydrogen, C1-C6 alkyl, C1-C6 alkoxy, C1-C6 haloalkoxy, C1-C6 haloalkyl, etc.; R3 represents hydrogen, C1-C6 alkyl, halogeno, nitro, formyl or acyl; X represents hydrogen, C1-C6 alkyl, C3-C7 cycloalkyl, C2-C6 alkenyl, C3-C6 alkynyl, C1-C6 haloalkyl, etc.; Y represents hydrogen, C1-C6 alkyl, C3-C7 cycloalkyl, C2-6 alkenyl, C3-6 alkynyl, C1-C6 haloalkyl, etc.; m represents an integer of 1 or 2; and n represents an integer of 1 to 4] are prepared The title compound II (preparation given) (at 2.5 g/are) gave 100% control of barnyard grass, Cyperus difformis, and Scirpus juncoides.

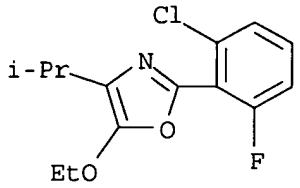
IT **177708-92-8P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrimidinylphenyloxazole derivs. as herbicides)

RN 177708-92-8 CAPLUS

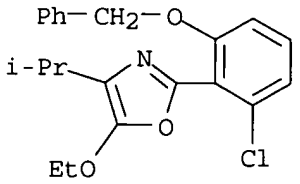
CN Pyrimidine, 2-[3-chloro-2-[5-ethoxy-4-(1-methylethyl)-2-oxazolyl]phenoxy]-4,6-dimethoxy- (9CI) (CA INDEX NAME)



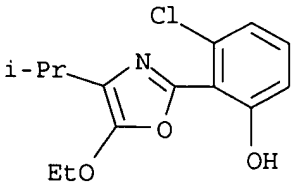
IT **177710-95-1P 177710-96-2P 177710-97-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrimidinylphenyloxazole derivs. as herbicides)
RN 177710-95-1 CAPLUS
CN Oxazole, 2-(2-chloro-6-fluorophenyl)-5-ethoxy-4-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 177710-96-2 CAPLUS
CN Oxazole, 2-[2-chloro-6-(phenylmethoxy)phenyl]-5-ethoxy-4-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 177710-97-3 CAPLUS
CN Phenol, 3-chloro-2-[5-ethoxy-4-(1-methylethyl)-2-oxazolyl]- (9CI) (CA INDEX NAME)



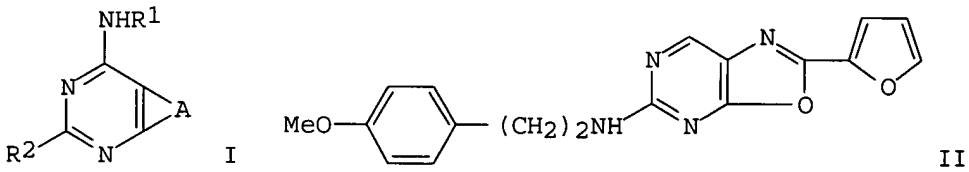
L13 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:560314 CAPLUS
DOCUMENT NUMBER: 119:160314
TITLE: Preparation of furyl-substituted purines, oxazolopyrimidines and pteridines as adenosine antagonists
INVENTOR(S): Block, Michael Howard; Harrison, Alison; Hargreaves, Rodney Brian
PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK
SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 544445	A2	19930602	EP 1992-310544	19921119 <--
EP 544445	A3	19931103		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CA 2082333	AA	19930526	CA 1992-2082333	19921106 <--
US 5300509	A	19940405	US 1992-979019	19921120 <--
JP 06157540	A2	19940603	JP 1992-315388	19921125 <--
US 5500428	A	19960319	US 1994-181202	19940113 <--

PRIORITY APPLN. INFO.: GB 1991-25001 A 19911125
US 1992-979019 A3 19921120

OTHER SOURCE(S): MARPAT 119:160314
GI

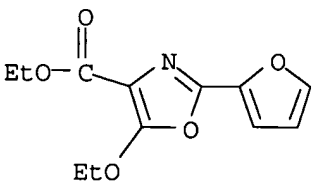


AB Title compds. I (R1 = H, C1-6 alkyl, C1-4 alkanoyl; R2 = H, NC, XR3 wherein X = bond. O, S, SO, SO2 imino, R3 = C3-12 cycloalkyl, (substituted) C1-6 alkyl, (substituted) Ph, R4(CO)nXa(CO)m wherein R4 = C1-6 alkyl, C3-6 cycloalkyl, (substituted) Ph, etc., Xa = X, m, n = 0, 1; A = N:CQO, N:CQNR8, N:CQCH:N, N:CHCQ:N wherein Q = 2-furyl, R8 = H, C1-4 alkyl with a proviso) or a salt thereof, are prepared 4,6-Dihydroxy-5-(2-furanylcarbonyl)amino-2-[(4-methoxyphenyl)ethyl]aminopyrimidine (preparation given) and POCl3 were heated at 90° for 3 h to give 7-chloro-2-(2-furyl)-5-[2-(4-methoxyphenyl)ethyl]aminooxazol[5,4-d]pyrimidine which with NH4Cl were added to a saturated solution of NH3/EtOH to give title compound II which in A2 adenosine receptor affinity test showed a plC50 >7 vs. 1,3-dimethylxanthine showing plC50 of 5. Capsule and tablet formulations comprising I are given.

IT **149849-02-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of adenosine antagonists)

RN 149849-02-5 CAPLUS

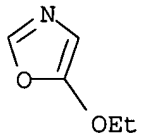
CN 4-Oxazolecarboxylic acid, 5-ethoxy-2-(2-furanyl)-, ethyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 9 OF 30 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:571465 CAPLUS
DOCUMENT NUMBER: 117:171465
TITLE: Chemiluminescent pyridopyridazines and their use
INVENTOR(S): Masuya, Hirotomo; Kondo, Koichi; Aramaki, Yoshio; Ichimori, Yuzo
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Eur. Pat. Appl., 48 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 491477	A1	19920624	EP 1991-310875	19911126 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2056142	AA	19920528	CA 1991-2056142	19911125 <--
JP 05078356	A2	19930330	JP 1991-312347	19911127 <--
JP 3167762	B2	20010521		
US 5420275	A	19950530	US 1993-144505	19931102 <--
PRIORITY APPLN. INFO.:			JP 1990-327777 A	19901127
			US 1991-799083 B1	19911127

OTHER SOURCE(S): MARPAT 117:171465
GI For diagram(s), see printed CA Issue.
AB Title compds. I [R1 = (un)substituted hydroxycarbyl, heterocyclyl; R2 = OH, SH, (un)substituted NH2; R1R2 = azaalkylene; R3 = H, (un)substituted (OH, SH, NH2, CO2H, CONH2), halo, heterocyclyl, NO2, CN, N3, sulfo, sulfonyl; X = O, S] were prepared Thus, I (R1 = Ph, R2 = NH2, R3 = Cl, X = O, II) was prepared from EtO(H2N)C:CHCO2Et and PhCOCH2CO2Et via cyclocondensation of 3-amino-6-chloro-4,5-diethoxycarbonyl-2-phenylpyridine with NH2NH2.H2O at 100°. In the presence of 1 pg horseradish peroxidase 0.2 mM II provided 0.678 kilocount chemiluminescence cf. luminol 0.032 kilocount.
IT **15031-12-6P**, 5-Ethoxyoxazole
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with di-Me fumarate)
RN 15031-12-6 CAPLUS
CN Oxazole, 5-ethoxy- (8CI, 9CI) (CA INDEX NAME)



L13 ANSWER 10 OF 30 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:81822 CAPLUS
DOCUMENT NUMBER: 114:81822
TITLE: Preparation of 1,2,5,6-tetrahydropyrimidyloxazoles or -thiazoles as stimulants of cognitive function
INVENTOR(S): Sauerberg, Per; Olesen, Preben H.; Mitch, Charles H.
PATENT ASSIGNEE(S): Aktieselskabet Ferrosan, Den.
SOURCE: Eur. Pat. Appl., 11 pp.

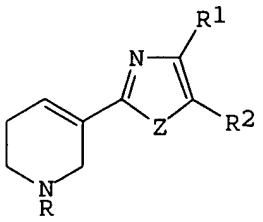
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 384285	A2	19900829	EP 1990-102889	19900214 <--
EP 384285	A3	19910424		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL				
DK 8900825	A	19900823	DK 1989-825	19890222 <--
US 5043345	A	19910827	US 1989-401370	19890831 <--
IL 93352	A1	19940826	IL 1990-93352	19900212 <--
ES 2072323	T3	19950716	ES 1990-102913	19900214 <--
AU 9049996	A1	19900830	AU 1990-49996	19900220 <--
AU 9049997	A1	19900830	AU 1990-49997	19900220 <--
AU 629302	B2	19921001		
US 5041455	A	19910820	US 1990-482272	19900220 <--
CA 2010578	AA	19900822	CA 1990-2010578	19900221 <--
CA 2010578	C	20000523		
CA 2010579	AA	19900822	CA 1990-2010579	19900221 <--
NO 9000830	A	19900823	NO 1990-830	19900221 <--
NO 179639	B	19960812		
NO 179639	C	19961120		
NO 9000831	A	19900823	NO 1990-831	19900221 <--
HU 58326	A2	19920228	HU 1990-884	19900221 <--
RU 2042676	C1	19950827	RU 1990-4743296	19900221 <--
KR 163763	B1	19981201	KR 1990-2108	19900221 <--
CN 1045104	A	19900905	CN 1990-100873	19900222 <--
CN 1028105	B	19950405		
JP 02255679	A2	19901016	JP 1990-39899	19900222 <--
JP 2921578	B2	19990719		
JP 02255680	A2	19901016	JP 1990-39900	19900222 <--
ZA 9001349	A	19901128	ZA 1990-1349	19900222 <--
ZA 9001350	A	19901128	ZA 1990-1350	19900222 <--
FI 95704	B	19951130	FI 1990-886	19900222 <--
FI 95704	C	19960311		
US 5264444	A	19931123	US 1991-744725	19910814 <--
US 5284859	A	19940208	US 1991-745568	19910815 <--
US 5328925	A	19940712	US 1991-746104	19910815 <--
US 5260311	A	19931109	US 1991-746378	19910816 <--
US 5559138	A	19960924	US 1995-472356	19950607 <--
US 5712297	A	19980127	US 1996-717647	19960923 <--

PRIORITY APPLN. INFO.:

DK 1989-825	A	19890222
DK 1989-2315	A	19890512
US 1989-401370	A2	19890831
US 1990-482272	A1	19900220
US 1991-745568	A3	19910815
US 1993-144951	B1	19931029
US 1995-472356	A3	19950607

OTHER SOURCE(S): MARPAT 114:81822
GI



I

AB The title compds. I (R = H, C1-3 alkyl, C3-4 cycloalkyl, C2-4 alkenyl, C2-4 alkynyl; R1, R2 = C1-10 alkyl, C2-10 alkenyl, C2-10 alkynyl, C1-10 alkoxy, C3-10 cycloalkyl, etc.; Z = O, S) or their salts, useful as stimulants of cognitive function, especially in treatment of Alzheimer's disease, were prepared (COCl)2 was added to arecaidine-HCl in CH2Cl2, followed by DMF, the reaction mixture refluxed for 3 h, cooled, to this solution was added (2S,3S)-EtCHMeCH(NH2)CO2Pr.HCl (preparation given), the resulting mixture refluxed for 48 h to give (S)-I (R = Me, R1 = EtCHMe, R2 = PrO, Z = O) as its maleate salt. (S)-I.maleate (R = Me, R1 = EtCHMe, R2 = MeO; Z = O) at 3.7 ng/mL had an IC50 for in vitro binding of 3H-oxotremorine. A tablet formulation comprising I is given.

IT **131969-13-6P 131969-15-8P 131969-17-0P**
131969-19-2P 131969-21-6P 131969-23-8P
131969-25-0P 131969-27-2P 131969-29-4P
131969-31-8P 131969-33-0P 131969-35-2P
131969-37-4P 131969-39-6P 131969-41-0P
131969-43-2P 131969-45-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as stimulant of cognitive function)

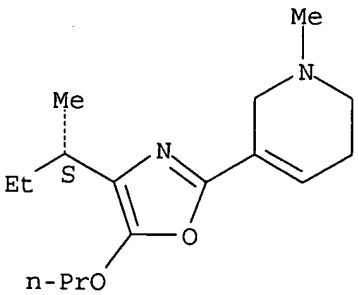
RN 131969-13-6 CAPLUS

CN Pyridine, 1,2,3,6-tetrahydro-1-methyl-5-[4-[(1S)-1-methylpropyl]-5-propoxy-2-oxazolyl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 131969-12-5
CMF C16 H26 N2 O2

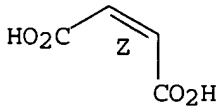
Absolute stereochemistry.



CM 2

CRN 110-16-7
CMF C4 H4 O4

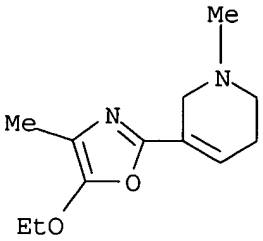
Double bond geometry as shown.



RN 131969-15-8 CAPLUS
CN Pyridine, 5-(5-ethoxy-4-methyl-2-oxazolyl)-1,2,3,6-tetrahydro-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

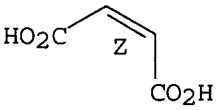
CRN 131969-14-7
CMF C12 H18 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

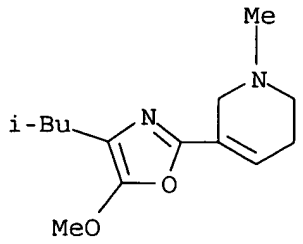
Double bond geometry as shown.



RN 131969-17-0 CAPLUS
CN Pyridine, 1,2,3,6-tetrahydro-5-[5-methoxy-4-(2-methylpropyl)-2-oxazolyl]-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

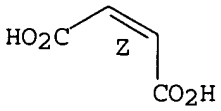
CRN 131969-16-9
CMF C14 H22 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

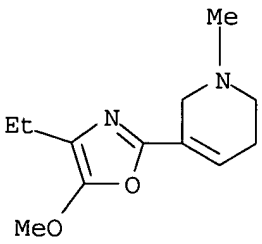
Double bond geometry as shown.



RN 131969-19-2 CAPLUS
CN Pyridine, 5-(4-ethyl-5-methoxy-2-oxazolyl)-1,2,3,6-tetrahydro-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

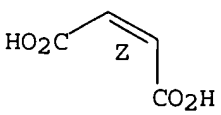
CRN 131969-18-1
CMF C12 H18 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

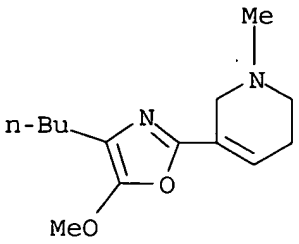
Double bond geometry as shown.



RN 131969-21-6 CAPLUS
CN Pyridine, 5-(4-butyl-5-methoxy-2-oxazolyl)-1,2,3,6-tetrahydro-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

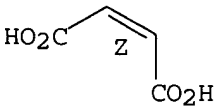
CRN 131969-20-5
CMF C14 H22 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.

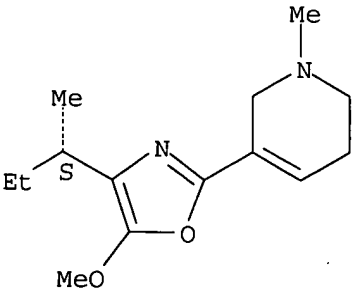


RN 131969-23-8 CAPLUS
CN Pyridine, 1,2,3,6-tetrahydro-5-[5-methoxy-4-[(1S)-1-methylpropyl]-2-oxazolyl]-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 131969-22-7
CMF C14 H22 N2 O2

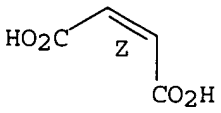
Absolute stereochemistry.



CM 2

CRN 110-16-7
CMF C4 H4 O4

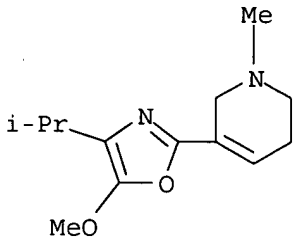
Double bond geometry as shown.



RN 131969-25-0 CAPLUS
CN Pyridine, 1,2,3,6-tetrahydro-5-[5-methoxy-4-(1-methylethyl)-2-oxazolyl]-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

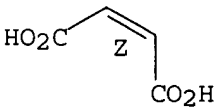
CRN 131969-24-9
CMF C13 H20 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

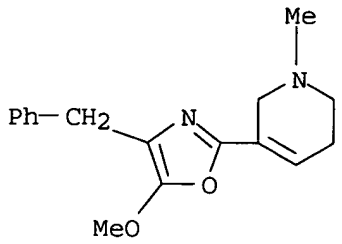
Double bond geometry as shown.



RN 131969-27-2 CAPLUS
CN Pyridine, 1,2,3,6-tetrahydro-5-[5-methoxy-4-(phenylmethyl)-2-oxazolyl]-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

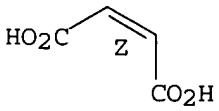
CRN 131969-26-1
CMF C17 H20 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

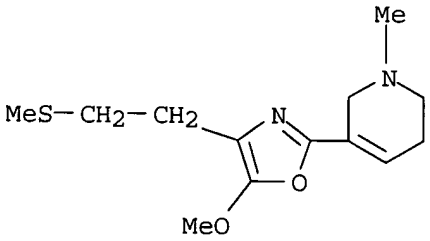
Double bond geometry as shown.



RN 131969-29-4 CAPLUS
CN Pyridine, 1,2,3,6-tetrahydro-5-[5-methoxy-4-[2-(methylthio)ethyl]-2-oxazolyl]-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

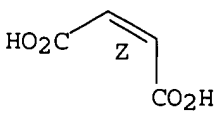
CRN 131969-28-3
CMF C13 H20 N2 O2 S



CM 2

CRN 110-16-7
CMF C4 H4 O4

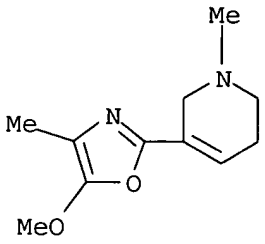
Double bond geometry as shown.



RN 131969-31-8 CAPLUS
CN Pyridine, 1,2,3,6-tetrahydro-5-(5-methoxy-4-methyl-2-oxazolyl)-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

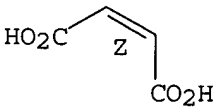
CRN 131969-30-7
CMF C11 H16 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

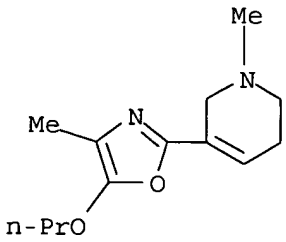
Double bond geometry as shown.



RN 131969-33-0 CAPLUS
CN Pyridine, 1,2,3,6-tetrahydro-1-methyl-5-(4-methyl-5-propoxy-2-oxazolyl)-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

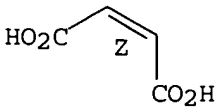
CRN 131969-32-9
CMF C13 H20 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

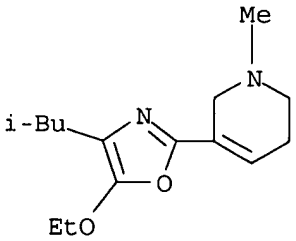
Double bond geometry as shown.



RN 131969-35-2 CAPLUS
CN Pyridine, 3-[5-ethoxy-4-(2-methylpropyl)-2-oxazolyl]-1,2,5,6-tetrahydro-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

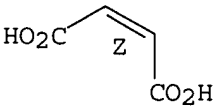
CRN 131969-34-1
CMF C15 H24 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

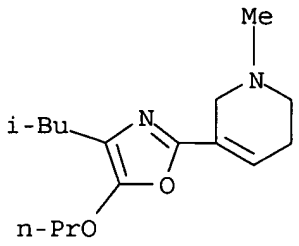
Double bond geometry as shown.



RN 131969-37-4 CAPLUS
CN Pyridine, 1,2,3,6-tetrahydro-1-methyl-5-[4-(2-methylpropyl)-5-propoxy-2-oxazolyl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

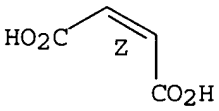
CRN 131969-36-3
CMF C16 H26 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.

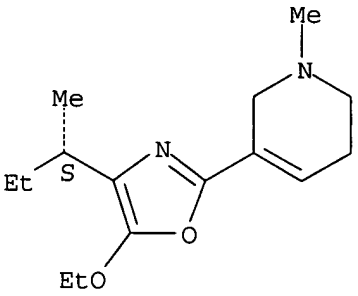


RN 131969-39-6 CAPLUS
CN Pyridine, 3-[5-ethoxy-4-[(1S)-1-methylpropyl]-2-oxazolyl]-1,2,5,6-tetrahydro-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 131969-38-5
CMF C15 H24 N2 O2

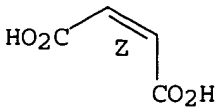
Absolute stereochemistry.



CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.

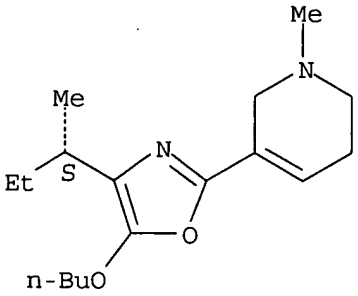


RN 131969-41-0 CAPLUS
CN Pyridine, 3-[5-butoxy-4-[(1S)-1-methylpropyl]-2-oxazolyl]-1,2,5,6-tetrahydro-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 131969-40-9
CMF C17 H28 N2 O2

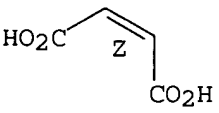
Absolute stereochemistry.



CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.

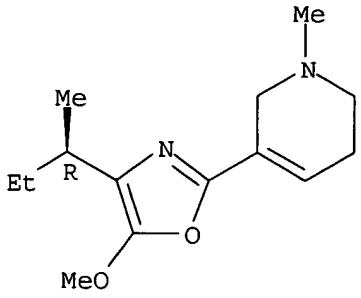


RN 131969-43-2 CAPLUS
CN Pyridine, 1,2,3,6-tetrahydro-5-[5-methoxy-4-[(1R)-1-methylpropyl]-2-oxazolyl]-1-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 131969-42-1
CMF C14 H22 N2 O2

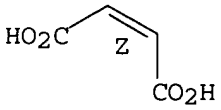
Absolute stereochemistry.



CM 2

CRN 110-16-7
CMF C4 H4 O4

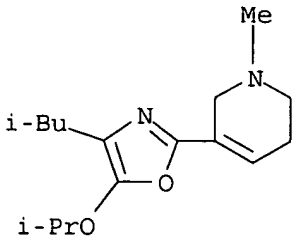
Double bond geometry as shown.



RN 131969-45-4 CAPLUS
CN Pyridine, 1,2,3,6-tetrahydro-1-methyl-5-[5-(1-methylethoxy)-4-(2-methylpropyl)-2-oxazolyl]-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

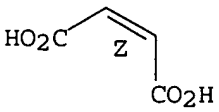
CRN 131969-44-3
CMF C16 H26 N2 O2



CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	140.78	302.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-18.25	-18.25

STN INTERNATIONAL LOGOFF AT 13:18:41 ON 07 JUL 2005